

ABSTRACT OF THE DISCLOSURE

An electric drive control apparatus which prevents the voltage from being saturated and does not cause the driver to feel uncomfortable during driving. The electric drive control apparatus includes an electrically operated machine, an instruction value calculation processing unit that calculates an instruction value based on a target electrically operated machine torque and on the rotational speed of the electrically operated machine, an output signal calculation processing unit that calculates an output signal based on the instruction value, a current generating unit that generates a current based on the output signal and supplies the current to the electrically operated machine, a change-in-the-voltage-saturation calculation processing unit that calculates, based on the instruction value, a change in the voltage saturation that varies depending upon the degree of occurrence of the voltage saturation accompanying the drive of the electrically operated machine, and a change-in-the-control-quantity correction processing unit that corrects a magnetic pole position depending upon the change in the voltage saturation. The change in the voltage saturation is calculated accompanying the drive of the electrically operated machine, and the magnetic pole position is corrected depending upon the change in the voltage saturation to prevent the voltage from being saturated.